

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION of

VOGEL ET AL.

Group Art Unit: 1754

Application Serial No.: 09/645,554

Examiner: HENDRICKSON, S.L.

Filed: August 25, 2000

Title: Furnace Carbon Black, Process for Production and Use Thereof

September 16, 2002

<u>AMENDMENT</u>

Hon. Commissioner of Patents Washington, D.C. 20231

Sir:

In response to the Office Action dated May 15, 2002, please amend the application as follows and consider the following remarks. RECEIVED TO 1700

IN THE CLAIMS:

Please cancel claim 5 without prejudice or disclaimer.

Please amend the following claim:

1. (Amended) A furnace carbon black, having a hydrogen content of greater than 4000 ppm, determined by CHN analysis, and a peak integral ratio, determined by inelastic neutron scattering, of non-conjugated hydrogen atoms (1250 cm⁻¹–2000 cm⁻¹) to aromatic and graphitic hydrogen atoms (1000 cm⁻¹–1250 cm⁻¹ and 750 cm⁻¹–1000 cm⁻¹) of from 1.17 to 1.22.

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Inventor(s): VOGEL et al.
Application No.: 09/645,554
Attorney Decket No.: 021123 0278

Attorney Docket No.: 021123-0271649

Please add the following new claim:

6. (New) An electrocatalyst comprising a furnace carbon black, having a hydrogen content of greater than 4000 ppm, determined by CHN analysis, and a peak integral ratio, determined by inelastic neutron scattering, of non-conjugated hydrogen atoms (1250 cm⁻¹–2000 cm⁻¹) to aromatic and graphitic hydrogen atoms (1000 cm⁻¹–1250 cm⁻¹ and 750 cm⁻¹–1000 cm⁻¹) of less than 1.22, wherein said furnace black is the support material for said electrocatalyst.

Who of